



7G7

SHARP-CUTOFF PENTODE

7G7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3[□] ac or dc voltsCurrent 0.45^{□□} ampDirect Interelectrode Capacitances:[○]Grid No.1 to Plate 0.007 max. μf Input 9 μf Output 7 μf [○] with external shield connected to cathode.

Mechanical:

Mounting Position Any

Maximum Overall Length 2-25/32"

Maximum Seated Length 2-1/4"

Maximum Diameter 1-3/16"

Bulb T-9

Base Lock-in 8-Pin

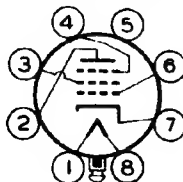
Basing Designation for BOTTOM VIEW 8V

Pin 1-Heater

Pin 2-Plate

Pin 3-Grid No.2

Pin 4-Grid No.3

Pin 5-Internal
Shield

Pin 6-Grid No.1

Pin 7-Cathode

Pin 8-Heater

Plug - Base
ShellAMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 300 max. volts ←

GRID-No.2 (SCREEN) VOLTAGE 100 max. volts ←

GRID-No.2 SUPPLY VOLTAGE 300 max. volts ←

PLATE DISSIPATION 1.5 max. watts ←

GRID-No.2 DISSIPATION 0.3 max. watt ←

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 90 max. volts

Heater positive with respect to cathode 90 max. volts

Typical Operation and Characteristics:

Plate Voltage 250 . . . volts

Grid No.3 Connected to cathode at socket

Internal Shield Connected to cathode at socket

Grid-No.2 Voltage 100 . . . volts

Grid-No.1 Voltage -2 . . . volts

Cathode-Bias Resistor 250 . . . ohms

Plate Resistance (Approx.) 0.8 . . . megohm

Transconductance 4500 . . . μmhos

(continued on next page)

[□] Nominal voltage = 7.0 volts.^{□□} Nominal current = 0.48 ampere.

← Indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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→ Grid-No.1 Bias (Approx.) for
 Cathode Current Cutoff -7 . . volts
 Plate Current. 6 . . ma
 Grid-No.2 Current. 2 . . ma

→ Indicates a change.

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DATA